05-GF-113
(550)

MUNICIPAL UTILITIES

CITY OF BLACK RIVER FALLS

ELECTRIC, WATER, & WWTP
Loren R. Radcliffe, Administrator

January 28, 2003

Mr. Jim Loock, Chief Electric Engineer
Public Service Commission
610 N. Whitney Way
P.O. Box 7854
Madison, WI 53707-7854

RE: In the Matter of Filing Reporting Requirements for Appropriate Inspection and Maintenance, PSC Rule 113.0607(6)

Dear Mr. Loock:

Enclosed for filing are 3 copies of Black River Falls Municipal Utility's report to the commission, submitted every two years, showing compliance with its Preventative Maintenance Plan.

Very truly yours,

Loren R. Radcliffe
Utility Administrator

Enclosures

RECEIVED
JAN
Electric Division

119 NORTH WATER ST. BLACK RIVER FALLS, WI 54615 (715) 284-9463

TWO YEAR REPORT DOCUMENTING COMPLIANCE WITH THE PREVENTATIVE MAINTENANCE PLAN

Black River Falls Municipal Utility

FILING DEADLINE
FEBRUARY 1, 2003

January 28, 2003

Loren R. Radcliffe {Contact Person}

119 N. Water Street {Street Address}

Black River Falls, Wi. 54615 {City, State, Zip Code}

715-284-9463 {Phone Number}

LRADCLIFFE@wppisys.org {email Address}

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Electric Division

This report format was prepared by the MEUW work group for PSC Rule 113.0607 for use by the 82 municipal electric utilities in Wisconsin and endorsed by PSC staff as meeting the requirements of Rule PSC 113.0607.

I Reporting Requirements: PSC 113.0607(6) states;

Each utility shall provide a periodic report to the commission showing compliance with its Preventative Maintenance Plan. The report shall include a list of inspected circuits and facilities, the condition of facilities according to established rating criteria, schedules established and success at meeting the established schedules.

II Inspection Schedule and Methods:

SCHEDULE:	MONTHLY	ANNUAL	EVERY 5 YEARS
Transmission (69Kv)		X	X
Substations	X	X	
Distribution (OH & UG)			X

METHODS: Five criteria groups will be used to complete the inspection of all facilities.

1. IR – infrared thermography used to find poor electrical connections and/or oil flow problems in equipment.
2. RFI - Radio Frequency Interference, a byproduct of loose hardware and connections, is checked using an AM radio receiver.
3. SI – structural integrity of all supporting hardware including poles, crossarms, insulators, structures, bases, foundations, buildings, etc.
4. Clearance – refers to proper spacing of conductors from other objects, trees and conductors.
5. EC – equipment condition on non-structural components such as circuit breakers, transformers, regulators, reclosers, relays, batteries, capacitors, etc.

Distribution facilities will be inspected by substation circuits on a 5 year cycle such that the entire system will be inspected every 5 years. Inspector instructions for inspecting all facilities and forms are included in the plan.

III Condition Rating Criteria

This criterion, as listed below, establishes the condition of a facility and also determines the repair schedule to correct deficiencies .

0) Good condition
1) Good condition but aging
2) Non-critical maintenance required – normally repair within 12 months
3) Priority maintenance required – normally repair within 90 days
4) Urgent maintenance required – report immediately to the utility and repair normally within 1 week

IV Corrective Action Schedule

The rating criteria as listed above determine the corrective action schedule.

V Record Keeping

All inspection forms and records will be retained for a minimum of 10 years. The inspection form contains all of the required critical information i.e. inspection dates, condition rating, schedule for repair and date of repair completion.

VI Reporting Requirements

A report and summary of this plan's progress will be submitted every two years with the first report due to the Commission by February 1, 2003. The report will consist of a cover letter documenting the percent of inspections achieved compared to the schedule and the percent of maintenance achieved within the scheduled time allowance.

VII Inspected Circuits and Facilities

Circuit # and description	Substation
1 - Downtown	**Downtown**
2 - Pricehill	**Downtown**
3 - Grove	**Downtown**
4 - German Hill	**Downtown**
5 - East Side	**Downtown**

Base load and peaking generation, less than 50 megawatts per unit in size, is typically subject to pre-operational checks, in addition to checks and maintenance during and after periods of operation. Emergency generation is test run and maintained every *(type in a period of time not exceeding one month)*to confirm its operational readiness.

1 - Co. Hwy "A"	**German Hill**
2 - German Hill	**German Hill**
1 - Power Circuit	**Lincoln Street**
2 - East Side	**Lincoln Street**

VIII Scheduling Goals Established and Success of Meeting the Criteria:

PSC staff expects a narrative listing goals and if they were achieved.

Scheduling Goals:

> "Black River Falls has a long standing standard procedure of inspecting each substation in its entirety on a weekly basis. We also inspect our transmission lines and distribution on a yearly basis. This is done both visually and by infrared scan. We have completed the above once again during both passed years."

IX Facility condition – rating criteria:

PSC staff is looking for a narrative on the overall condition of the electric utility.

During the last two years the Eastside circuit was completely rebuilt. The infrared scan turned up the usual hot spots around our system which were corrected immediately. We have a constant maintenance program scheduled to take care of any problems that pop-up along with tree trimming, pole replacement and etc. We find our system to be in excellent condition and very reliable.